Dedicated to the memory of Jess Stein

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Len (len), n. a male given name, form of **Leonard**.

Le-na (le/ne; Russ. lye/ne), n. 1. a river in the Russian Federation in Asia, flowing NE from Lake Baikal through the Yakutsk Republic into the Laptev Sea. 2800 mi. (4500 km) long. 2. a female given name, form of Helena.

Le-nae-a (le nē/e), n. (sometimes used with a plural v.) a festival in ancient Athens in honor of Dionysus, celebrated at the beginning of February and comprising a public banquet followed by the performance of comedies. Also, Le-nai-a (le ni/e).

Le Nain (le nan'), An-toine (än twan'), ("the Elder"), 1588?-1648, and his two brothers Louis (lwē), ("the Roman"), 1593?-1648, and Ma-thieu (ma tyœ'), 1607-77, French painters.

Len-a-pe (len/a pē, le nä/pē), n., pl. -pes, (esp. collectively) -pe. Delaware (defs. 5, 6). Also called Lenni Lenape. [1720-30, Amer.; < Unami Delaware ləná:pe (equiv. to Proto-Algonquian *elen- ordinary + *-a-pe w

1862–1947, German physicist, born in Czechoslovakia: Nobel prize 1905. Le-nard

Le'nard tube', Electronics. an early cathode-ray tube having at the end opposite the cathode a window of thin glass or metal allowing cathode rays (Le'nard rays') to pass out into the atmosphere. [named after P.] LENARD]

Len-ca (leng'kə), n., pl. -cas, (esp. collectively) -ca. 1. a member of an Indian people of El Salvador and central Honduras. 2. the language of the Lenca.

Len-clos (län klō'), n. Anne (än, an), (Ninon de Len-clos), 1620–1705?, French courtesan and wit.

clos), 1620-1705?, French courtesan and wit.

lend (lend), v., lent, lend-ing. —v.t. 1. to grant the use of (something) on condition that it or its equivalent will be returned. 2. to give (money) on condition that it is returned and that interest is paid for its temporary use.

3. to give or contribute obligingly or helpfully: to lend one's aid to a cause. 4. to adapt (oneself or itself) to something: The building should lend itself to inexpensive remodeling. 5. to furnish or impart: Distance lends enchantment to the view. —v.i. 6. to make a loan. 7. lend a hand, to give help; aid: If everyone lends a hand, we can have dinner ready in half an hour. [bef. 900; ME lenden, var. (orig. past tense) of lenen, OE lænan (c. D lenen, G lehnen, ON lāna), deriv. of læn loan; c. G Lehnen, ON lān. See Loan¹] —lend'er. n.

lend-a-ble (len'da bel), adi. reserved or at hand for

lend-a-ble (len'də bəl), adj. reserved or at hand for purposes of lending: lendable stock; lendable money. [1605-15; LEND + -ABLE]

lend in library, 1. Also called circulating library, rental library, a small library that is maintained by a commercial establishment, as a drugstore, and is composed largely of current books that are lent to customers for a fee. 2. Chiefly Brit. a public library that lends materials or the division or section of it that carries out this function. [1700-10]

lend-lease (lend/les/), n., v., -leased, -leas-ing. —n.

1. the matériel and services supplied by the U.S. to its allies during World War II under an act of Congress (Lend/-Lease/ Act/) passed in 1941: such aid was to be repaid in kind after the war. 2. the two-way transfer of ideas, styles, etc. —v.t. 3. to supply (matériel or services) as authorized by the Lend-Lease Act. [1935-40]

Le-nex-a (le nek/se), n. a city in NE Kansas. 18,639.

L'En-fant (län fän'), n. Pierre Charles (pyer sharl), 1754-1825, U.S. engineer, architect, and soldier; born in France: designer of Washington, D.C.

Len-gien (leng'glən, -lən; Fr. län glen'), n. Su-zanne (soo zan'; Fr. sy zan'), 1899-1938, French tennis player.

length (lengkth, length, lenth), n. 1. the longest extent of anything as measured from end to end: the length of a river. 2. the measure of the greatest dimension of a plane or solid figure. 3. extent from beginning to end of a series, enumeration, account, book, etc.: a report running 300 pages in length. 4. extent in time; duration: the length of a battle. 5. a distance determined by the ning 300 pages in length. 4. extent in time; duration: the length of a battle. 5. a distance determined by the extent of something specified: Hold the picture at arm's length. 6. a piece or portion of a certain or a known extent: a length of rope. 7. the quality or state of being long rather than short: a journey remarkable for its length. 8. the extent to which a person might or would go in pursuing something: He went to great lengths to get what he wanted. 9. a large extent or expanse of something. 10. the measure from end to end of a horse, boat, etc., as a unit of distance in racing: The horse won by two lengths. 11. Clothing. the extent of a garment related to a point it reaches, as on the wearer's body, the floor, or on a garment used as a standard of measurement (usually used in combination): an ankle-length gown; a floor-length negligee; a three-quarter-length coat. 12. Pros., Phonet. 2. (of a vowel or syllable) quantity, whether long or short. b. the quality of vowels. 13. Bridge, the possession of four or more than four cards in a given suit. 14. Theat. Archaic. 42 lines of an acting part. 15. at length, 2. in or to the full extent; completely. 3. after a time; finally: At length there was a step forward in the negotiations. 16. go to any length or lengths, to disregard any impediment that could prevent one from accomplishing one's purpose: He would go to any lengths to get his own way. 17. keep at arm's length; c. D lengte, ON lengd. See Longf., TH']—Syn. 1. span, stretch, reach, scope, measure. length' between' perpendic'ulars, Naut. the length of a hull between the forward and after perpen-

length' between' perpendic'ulars, Naut. the length of a hull between the forward and after perpendicular. Cf. perpendicular (def. 11).

length-en (lengk'then, leng'-, len'-), v.t. 1. to make longer; make greater in length. —v.i. 2. to become

TEND is to lengthen beyond some original p TEND IS to lengthen beyond some original point or so as to reach a certain point: to extend a railway line by a hundred miles. To STRETCH is primarily to lengthen by drawing or tension: to stretch a rubber band. Both prolong and protract mean esp. to lengthen in time, and therefore apply to intangibles. To prolong is to continue beyond the desired estimated or ellotted time; to probeyond the desired, estimated, or allotted time: to pro-long an interview. To propriate to draw out to undue length or to be slow in coming to a conclusion: to protract a discussion. —Ant. 1. shorten.

length' o'ver all', Naut. the entire length of a vessel, measured from the foremost point of the bow to the aftermost point of the stern.

length-ways (lengkth/wāz/, length/-, lenth/-), adv., adi. lengthwise. [1590-1600: LENGTH + - WAYS]

length-wise (lengkth/wiz/, length/-, lenth/-), adv., adj. in the direction of the length. [1570-80; LENGTH + WISE

length-y (lengk/thē, leng'-, len'-), adj., length-i-er, length-i-est. 1. having or being of great length; very long: a lengthy journey. 2. tediously verbose; very long; too long: a lengthy speech. [1680-90, Amer.; LENGTH + -v1] —length'i-ly, adv. —length'i-ness, n.

Len-gua (leng'gwe), n. 1. a member of a group of Indian peoples living in the Gran Chaco area of Paraguay.

2. any of several languages spoken by these peoples. [1820-25; < Sp; lit., tongue, ref. to their custom of wearing length.] ing labrets]

le-ni-en-cy (lē/nē ən sē, lēn/yən-), n., pl. -cies. 1. the quality or state of being lenient. 2. a lenient act. Also, le/ni-ence. [1770-80; LENI(ENT) + -ENCY]

le-ni-ent (le'nē ent, lēn/yent), adj. 1. agreeably tolerant; permissive; indulgent: He tended to be lenient toward the children. More lenient laws encouraged greater freedom of expression. 2. Archaic. softening, soothing, or alleviative. [1645-55; < L lēnient- (s. of lēniēns), prp. of lēnire to soften, alleviate, soothe. See Lenis, -ent] le/ni·ent·ly, adv.

Le-nin (len'in; Russ. lye'nyin), n. V(la-di-mir) I(l-ylch) (vlad'ə mēr' il'yich; Russ. vlu dyē'myir ē lyēch'), (Vladimir Ilyich Ulyanov) ("N. Lenin"), 1870–1924, Russian revolutionary leader: Soviet premier 1918–24.

Le-ni-na-bad (len'i ne bäd'; Russ. lyi nyi nu bät'), n. former name (1936-91) of Khodzhent.

Le-ni-na-kan (len'i nə kän'; Russ. lyi nyi nu kän'), n. former name of Gumri.

Le-nin-grad (len'in grad'; Russ. lyi nyin grät'), n. former name (1924-91) of **St. Petersburg** (def. 1).

Le-nin-ism (len's niz'sm), n. the form of Communism as taught by Lenin, with emphasis on the dictatorship of the proletariat. [1915-20; LENIN + -ISM]

Le-nin-ist (len'e nist), adj. 1. of or pertaining to Lenin or to Leninism. —n. 2. an advocate or supporter of Lenin or Leninism. Also, Le-nin-ite (len'e nit'). [1915— 20; LENIN + -IST]

Le'nin Peak', a peak in the Trans Alai range, in central Asia, between Kyrgyzstan and Tajikistan. 23,382 ft. (7127 m). Formerly, Kaufmann Peak.

Le-ninsk-Ku-znets-ki (len'insk kööz nets'kë; Russ. lye'nyinsk köö znyets'kyë), n. a city in the S Russian Federation in Asia. 132,000. Also, Le'ninsk-Ku-znets'kiy.

kiy. le-nis ($l\bar{e}'$ nis, $l\bar{a}'$ -), adj., n., pl. **le-nes** ($l\bar{e}'$ nēz, $l\bar{a}'$ -). Phonet. -adj. 1. pronounced with relatively weak muscular tension and breath pressure, resulting in weak sound effect: in stressed or unstressed position, (b, d, g, j, v, th, z, and zh) are lenis in English, as compared with (p, t, k, ch, f, th, s, and sh), which are fortis. **Cf. fortis** (def. 1). -n. 2. a lenis consonant. [1925–30; < L. soft, mild, gentle]

le-nit-ic (li nit'ik), adj. lentic. [1915-20; lenit- (as in LENITION, LENITIVE, etc.) + -IC]

e-ni-tion (li nish/ən), n. 1. Phonet. a phonological process that weakens consonant articulation at the ends of syllables or between vowels, causing the consonant to become voiced, spirantized, or deleted. 2. Ling. a type of Celtic mutation that derives historically from phonological lenition. [1535-45 for obs. sense "mitigation, assuaging"; 1910-15 for current senses; < L lēnit(us) (ptp. of lēnire to soften; see LENIS, -ITE*) + -ION]

len-i-tive (len/i tiv), adj. 1. softening, soothing, or mitigating, as medicines or applications. 2. mildly laxative. —n. 3. a lenitive medicine or application. 4. a mild laxative. 5. Archaic. anything that softens or soothes. [1535-45; < ML lenitivus. See Lenition, -ive] —len/i-tive-iy, adv. —len/i-tive-ness, n.

len-i-ty (len'i tē), n., pl. -ties. 1. the quality or state of being mild or gentle, as toward others. 2. a lenient act. [1540-50; < L lēnitās. See LENIS, -TY²]

Len'ni Len'ape (len'ë), Delaware (defs. 5, 6). Also called Lenape.

Len-nox (len/eks), n. a town in SW California, near Los Angeles. 18,445.

Len-ny (len/ \tilde{e}), n. a male given name, form of **Leonard**. Also, **Len/nie**.

18-10 (18/no), n., pl. -nos, adj. —n. 1. Also called 18/no weave/, gauze weave. a weave structure in which paired warp yarns are intertwined in a series of figure eights and filling yarn is passed through each of the interstices so formed, producing a firm, open mesh. 2. any fabric in this weave. —adj. 3. made in leno weave. [1850-55; perh. Anglicized var. of F linon lawn, deriv. of lin linen (< L linum flax)]

Le-noir (le nwar' for 1; le nôr', -nōr' for 2), n. 1.
Jean Jo-seph E-tienne (zhăn zhō zef' ā tyen'), 18221900, French inventor. 2. a town in W North Carolina.

Berkshire Hills: a former estate (Tanglewood area is the site of annual summer music festival area is the site of annual summer music festival lens (lenz), n., pl. lens-es, v. —n. 1. a piece of parent substance, usually glass, having two oppose faces either both curved or one curved and one used in an optical device in changing the converging the converging the converging transpose of magnification, or in correcting of vision. 2. a combination of such pieces. an analogous device, as for affecting sound waves, magnetic radiation, or streams of electrons. See crystalline lens. 5. Geol. a body of rock or is thick in the middle and thinner toward the edgilar in shape to a biconvex lens.—v.t. 6. Mot is since in the inique and thinner toward the edgilar in shape to a biconvex lens.—0.t. 6. Most tures to film (a motion picture). [1685-95; < NL use of L lēns a lentil (from its shape); see—lens/less, adj.—lens/like/, adj.

lenses (def. 1) A, plano-concave;
B, biconcave (concavo-concave); C, plano-convex;
D, biconvex (convexo-convex);
E, the meniscus (converging concavo-convex, converging meniscus); F, concavo-convex



lens-board (lenz/bord/, -bord/), n. Photog. the removable front panel of a view camera or enlewhich the lens is mounted. Also, lens/ board/. 95; LENS + BOARD]

lens-man (lenz/mən), n., pl. -men. Informal. tographer. [1950-55; LENS + -MAN]

lens' tur'ret, Photog. a rotating device on a for bringing any of several lenses in front of the [1950-55]

lent (lent), v. pt. and pp. of lend.

Lent (lent), n. (in the Christian religion) an ann son of fasting and penitence in preparation for beginning on Ash Wednesday and lasting 40 wee Easter, observed by Roman Catholic, Anglican, tain other churches. [bef. 1000; ME lente(n), OE lengten spring, Lent, lit., lengthening (of dayligh c. D lente, G Lenz spring; see LENTEN]

-lent, a suffix occurring in loanwords from Latir -ulent: pestilent.

len-ta-men-te (len/ta men/tā; It. len/tā men/ Music. slowly. [1755-65; < It, equiv. to len LENTO) + -mente adv. suffix < L. abl. of men purpose, intention (see MENTAL)]

len-tan-do (len tan/dō; It. len tan/dō), adj. Mu coming slower. [1850-55; < It, prp. of lentare slow; see LENTO]

Lenten (len/tn), adj. 1. of, pertaining to, or for Lent. 2. suggesting Lent, as in austerity, for rigorousness; meager. Also, lenten [ME, tributive use of lenten Lent, later taken as adj. of

len-tic (len-tik), adj. pertaining to or living water. Also, lenitic. [1930-35; < L lent(us) s.

len-ti-cel (len/ta sel/), n. Bot. a body of cell: on the periderm of a stem, appearing on the step lant as a lens-shaped spot, and serving a [1850-55; < NL lenticella, dim. of L lenticula l LENTICLE] —len-ti-cel-late (len/tə sel/it), adj.

len-ti-cle (len-ti kel), n. a window in a clock vealing the motion of the pendulum bob. [< L lentil, equiv. to lenti- (s. of lēns; see LENS) + -cu

len-tic-u-lar (len tik/ye ler), adj. 1. of or p to a lens. 2. biconvex; convexo-convex. 3. re the seed of a lentil in form; lentil-shaped. [15 late ME < L lenticulāris lentillike, equiv. to k (see LENTICLE) + -āris -AR'] —len-tic/u-lar-ly

lentic'ular cloud', a very smooth, round lens-shaped cloud that is often seen, singly or s groups, near a mountain ridge. lentic/ular proc/ess, Photog. a method for

ing images with a three-dimensional ef graphing on lenticulated film. [1940–45]

len-tic-u-late (len tik/yə lāt/), v.t., -lat-ed, Photog. to impress lenticules on the surface [1920-25; < L lenticul(a) (see LENTICLE) + -AT

len-ti-cule (len/ti kyōōl/), n. Photog. one of n cylindrical or spherical lens segments embosse surface of a film used in stereoscopic and color phy. [1880–85; < L lenticula; see LENTICLE]

len-ti-form (len/tə form/), adj. lenticular. [1' len-tig-i-nous (len tij/s nes), adj. 1. of or r to a lentigo. 2. Bot., Zool. covered with mir freckled; speckled. Also, len-tig-i-nose (len ti [1590-1600; < L lentiginõsus freckled, equiv. to (s. of lentigō) LENTIGO + -ōsus -ous]

len-ti-go (len ti/gō), n., pl. -tig-i-nes (-tij/o freckle or other pigmented spot. [1375-1425; la pl.) < L, equiv. to lenti- (var. of lenti-, s. of lēn + -gō n. suffix]

ien-til (len'til, -tl), n. 1. a plant, Lens culina legume family, having flattened, biconvex seed food. 2. the seed itself. [1200-50; ME < OF l VL *lenticula for L lenticula. See LENTICLE]

CONCISE PRONUNCIATION KEY: act, cāpe, dâre, pārt; set, $\hat{\mathbf{e}}$ ox, over, order, oil, book, boot, out; up, ûrge; child; sing; that; th as in treasure. $\mathbf{a} = a$ as in alone, e as in systeristic, or as in gallop, u as in circus; *as in fire ($\hat{\mathbf{f}}$ 'or), l and n can serve as syllabic consonants, as in cradle (button (but'n). See the full key inside the front cover.

hand after all the opponents' cards in that particular suit have been drawn. [1860–65] long'-case clock' (lông'kās', long'-). See tail-case

the time

N langr, the adj.; DS, OHG

ed, pro-tedious,

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ig to re-in grow

table or 50-1200:

deriv. of ent (on),

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Louisi-B(il·liu)

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m. sus-

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1725-35:

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earance. itās pa-ONG¹ +

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rlv) the

of the limbs:

exag-es sure of fish.

evel

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plorer.

Pierce

LONG

long-chain (lông/chān/, long/-), adj. Chem. pertaining to molecules composed of long chains of atoms, or polymers composed of long chains of monomers. [1925-30]

long' clam'. See soft-shell clam. [1835-45, Amer.] long-cloth (lông/klôth/, long/kloth/), n. a fine, white, cotton cloth, of plain weave; high-grade muslin. [1535–45; LONG¹ + CLOTH]

long-day (lông/dā/, long/-), adj. Bot. requiring a long photoperiod in order to flower. [1915-20]

Long/ Day's/ Jour/ney Into Night/, a play (1956) by Eugene O'Neill.

Long-den (lông/den, long/-), n. John Eric (Johnny), born 1907, U.S. jockey and thoroughbred horse trainer. long' dis'tance, telephone service between distant places. [1900-05]

long-dis-tance (lông/dis/tens, long/-), adj. 1. of, from, or between distant places: a long-distance phone call. 2. for, over, or covering long distances: a long-distance runner. —adv. 3. by long-distance telephone: to call someone long-distance. [1880-85]

long' divi'sion, Math. division, usually by a number of two or more digits, in which each step of the process is written down. [1820–30]

long' doz'en, a dozen plus one; thirteen; baker's dozen. [1860-65]

long-drawn-out (lông/drôn/out/, long/-), adj. 1. lasting a very long time; protracted: a long-drawn-out story. 2. of great length; long: a long-drawn-out line of soldiers. Also, drawn-out, long/-drawn/. [1900-05]

longe (lunj, lonj), n., v., longed, longe-ing. —n. 1. a long rope used to guide a horse during training or exercise. —v.t. 2. to train or exercise (a horse) by use of a longe. Also, lunge. [< F, OF: n. use of longe (adj.) < L longa, fem. of longus LONG]

long'-eared owi/ (lông'ērd', long'-), a mottled-gray owl, Asio otus, of the Northern Hemisphere, having a long tuft on each side of the head. [1805-15]

lon-ge-ron (lon-jer en), n. Aeron. a main longitudinal brace or support on an airplane. [1910-15; < F: side-piece, equiv. to long(er) to run alongside, skirt (deriv. of long LONG') + -eron n. suffix]

long' ess' (es). See long s.

lon-gev-l-ty (lon jev'i tē, lôn-), n. 1. a long individual life; great duration of individual life: Our family is known for its longevity. 2. the length or duration of life: research in human longevity. 3. length of service, tenure, etc.; seniority: promotions based on longevity. [1605-15; < L longaevitās. See Longaevous, -ITY]

lon-ge-vous (lon jē/vəs, lôn-), adj. Archaic. long-lived; living to a great age. [1670-80; < L longaevus aged, equiv. to long(us) LONG' + aev(um) time, age, lifetime + -us adj. suffix; see -ous]

long' face', an unhappy or gloomy expression: He's been walking around with a long face ever since he failed the examination. [1780-90]

long-faced (lông/fāst/, long/-), adj.
having an unhappy or gloomy expression; glum.
having a face longer than the usual. [1585-95]

Long-fel-low (long/fel/ö, long/-), n. Henry Wadsworth (wodz/worth), 1807-82, U.S. poet.

Long-ford (lông/fərd, long/-), n. a county in Leinster, in the N Republic of Ireland. 31,138; 403 sq. mi. (1044 sq. km). Co. seat: Longford.

long' gal'lery, a large gallery, found esp. in the uppermost stories of Elizabethan and Jacobean manor houses, used as a family room and as a promenade.

long' game', 1. the aspect of golf considered in relation to the ability of a player to hit shots, esp. drives, for distance. Cf. short game (def. 1). 2. a card game in which all cards in the pack are dealt before play. Cf. short game (def. 2).

long' green', Slang. paper money; cash. [1890-95,

iong-hair (lông/hâr/, long'-), Informal. —n. 1. Sometimes Disparaging. an intellectual. 2. a person, often gifted, who is very interested in or devoted to the arts, esp. a performer, composer, or lover of classical music.

3. a person having long hair, esp. a hippie. 4. a cat having long fur. —adj. Also, iong/haired/. 5. having long hair: a longhair cat. 6. of or characteristic of longhairs or their tastes. [1915-20; LONG¹ + HAIR]

long-hand (lông'hand', long'-), n. 1. writing of the ordinary kind, in which words are written out in full (distinguished from shorthand). —adj. 2. using long-hand: longhand writing. 3. written in longhand: a long-hand account of the meeting. [1660-70; LONG' + HAND]

long-han-dies (lông/han/dlz, long/-), n. (used with a plural v.) South Midland, Southern, and Western U.S. long underwear. [LONG¹ + HANDLES]

long/ haul/. See haul (def. 21). [1925-30]

long-haul (lông/hôl/, long/-), adj. 1. line-haul. 2. of or pertaining to a long haul. [1925-30]

long-head (lông/hed/, long/-), n. Anthropol. 1. a doli-chocephalic person. 2. a head with a low cephalic index. [1635-45; LONG' + HEAD]

longhorn. 2. Slang. a Texan. 3. (i.e.) See long-horned beetle. 4. one of a nearly extinct English breed of beef cattle having long horns. [1825-35; LONG¹ + HORN]

long'-horned bee'tle (lông'hôrnd', long'-), any of numerous, often brightly colored beetles of the family Cerambycidae, usually with long antennae, the larva of which bores into the wood of living or decaying trees. Also called longhorn. [1830-40]

long'-horned grass'/hopper, any of numerous insects of the family Tettigoniidae, having long, threadlike antennae and well-developed stridulating organs on the forewings of the male. Also, long'horn grass'/hopper. Also called tettigoniid. Cf. katydid. [1890-95]

long' horse', Gymnastics. See vaulting horse. [1930-35]

long' house', a communal dwelling, esp. of the Iroquois and various other North American Indian peoples, consisting of a wooden, bark-covered framework often as much as 100 ft. (30.5 m) in length. [1615-25] long/ hun/dredweight, a hundredweight of 112 lb.

(50.8 kg), the usual hundredweight in Great Britain, but now rare in the U.S. [1930–35]

longi-, a combining form meaning "long," used in the formation of compound words: longicorn. [< L, comb. form of longus LONG¹; see -I-]

lon-gi-cau-dal (lon/ji kôd/l), adj. having a long tail; macrutous. Also, lon-gi-cau-date (lon/ji kô/dāt). [Lon-

lon-gi-corn (lon'ji kôrn'), Entomol. —adj. 1. having long antennae. 2. belonging or pertaining to the Cerambycidae, comprising the long-horned beetles. —n. 3. See long-horned beetle. [1840-50; < NL longicornis long-horned, equiv. to longi- Longi- + corn(\overline{u}) HORN + is adj. suffix

long-ies (lông/ēz, long'-), n. (used with a plural v.) 1. long underwear, esp. for winter use. 2. long pants for boys. [1950-55, Amer.; LONG¹ + -IE + -8³]

long-ing (lông/ing, long'-), n. 1. strong, persistent desire or craving, esp. for something unattainable or distant: filled with longing for home. 2. an instance of tant: Itted with tonging to see old friends. —adj. 3. having or characterized by persistent or earnest desire: a longing look. [bef. 1000; ME; OE langung; see Long?, -ING¹] —long'ng-ly, adv. —long'ing-ness, n.
—Syn. 1. aspiration. See desire. 3. desirous, yearn-

-Ant. 1. apathy.

Lon-gi-nus (lon ji/nes), n. Dionysius Cas-sius (kash'-es), A.D. 213?-273, Greek philosopher and rhetorician.—Lon-gin-e-an (lon jin'e en), adj.

long' | ron, Golf: a club, as a driving iron, midiron, or mid-mashie, with a long shaft and an iron head the face of which has little slope, for hitting long, low shots. Cf. short iron. [1930-35]

long-ish (lông'ish, long'-), adj. somewhat long. [1605-15; LONG' + -1SH¹]

Long/ Is/land, an island in SE New York: the boroughs of Brooklyn and Queens of New York City are located at its W end. 118 mi. (190 km) long; 12-20 mi. (19-32 km) wide; 1682 sq. mi. (4356 sq. km).

Long/ Is/land Sound/, an arm of the Atlantic between Connecticut and Long Island. 90 mi. (145 km) long. lon-gi-tude (lon' ji tood', -tyood'), n. 1. Geog. angular distance east or west on the earth's surface, measured by distance east or west on the earth's surface, measured by the angle contained between the meridian of a particular place and some prime meridian, as that of Greenwich, England, and expressed either in degrees or by some corresponding difference in time. 2. Astron. a. See celestial longitude. b. See galactic longitude. [1350–1400; ME < L longitude length. See LONGI-, -TUDE]

lon'gitude by account', Navig. the longitude of the position of a vessel as estimated by dead reckoning.

lon-gi-tu-di-nal (lon/ji tood/n l, -tyood/.), adj. 1. of or pertaining to longitude or length: longitudinal measurement. 2. extending in the direction of the length of a urement. 2. extending in the direction of the length of a thing; running lengthwise: a thin, longitudinal stripe.

3. Zool. pertaining to or extending along the long axis of the body, or the direction from front to back, or head to tail.

4. pertaining to a research design or survey in which the same subjects are observed repeatedly over a period of time. —n. 5. a longitudinal framing member, as in the hull of a ship. [1535-45; < L longitudin- (s. of longitudo; see LONGITUDE) + -AL¹] —lon/gl-tu/dl-nal-ly, adv. Iv. adv.

longitu/dinal coeffi/cient, Naval Archit. the ratio of the immersed volume of a hull to the product obtained by multiplying its length on the water line by the immersed area of the midship transverse section, all assuming a given depth of immersion of the hull. Also called **prismatic coefficient**.

longitu/dinal fram/ing, Naval Archit. See Isherwood framing.

longitu/dinal sec/tion, the representation of an object as it would appear if cut by the vertical plane passing through the longest axis of the object.

longitu/dinal wave/, Physics. a wave in which the direction of displacement is the same as the direction of propagation, as a sound wave. Cf. transverse wave. [1930-35]

long' johns', (used with a plural v.) Informal. long underwear, esp. for winter use. [1940-45]

long' jump', Track and Field. 1. a jump for distance from a running start. 2. a field event featuring competi-

enduring or existing for a long pe lasting friendship. 2. effective for riod of time: a long-lasting pain in the effects of wear or use over a lon

the effects of wear or use over a ion ing fabric used for work clothes. [I long/leaf pine/ (lông/lef/, long/pine, Pinus palustris, valued as a and for its timber. 2. the wood of Georgia pine. [1790-1800, Amer.]

long-liner (lông/li/ner, long'.), fishing vessel that uses a long line of hooks attached to it. [1950-55; l long-lived (long/livd/, -livd/, long long life, existence, or duration: a lived fame. 2. (of an object) lasting time: a long-lived battery. [1375 LONG¹, LIVED] —long'-lived/ness,

Long/ March/, the 6000-mi. 968 Chinese Communist party and Re-eastern China (Jiangxi province) to an in Shaanxi province) in 1934-38 Zedong became leader of the Comr of Chin chángzhēng

Long·mead·ow (lông/med/ō, -m town in S Massachusetts. 16,301.

long/ meas/ure, 1. Also called lefour-line stanza in lambic tetram hymns, with the second and fourt sometimes the first and third lines See linear measure. [1710-20]

Long-mont (lông/mont, long/-), n Colorado. 42,942.

long' moss'. See Spanish moss. long-neck (lông/nek/, long'-), n. t tle of beer. [1885-90, for an ear NECK]

long'-neck clam' (lông'nek', lo clam. [1900-05, Amer.]

Lon-go-bard (long/go bard/, -ge-

long' one', 1. Informal. See ta bottle of beer

Long' Par'liament, Eng. Hist. assembled November 3, 1640, was a in 1653, reconvened in 1659, and w

long' pig', (among the Maori and human flesh as food for cannibals. long/ play/, a long-playing [1950-55]

long-play-ing (lông/pla/ing, long taining to microgroove records de 331/3 revolutions per minute. [1945

long/ prim/er, Print. a 12-point long-range (lông/rānj/, long/-), a extending into the future: a long-range plans. 2. designed to cover c distance: long-range rockets. [1865]

long/ ri/fle. See Kentucky rifle. long-run (lông/run', long'-), adj sented over a long period of time or of performances: a long-run hit pla long s (es), a style of the letter s

case f in form, formerly common in type character. Also, long ess. long-ship (lông'ship', long'-), n. in northern Europe esp. by the N narrow, open hull, a single square s ber of oars, which provided mos [1560-70; LONG' + SHIP]

long-shore (lông/shôr/, -shōr/, le found, or employed along the sho seaport: longshore jobs; longshore

aph. var. of alongshore] iong/shore drift/. See beach de long·shore·man (lông/shôr/mən

pl. -men. a person employed on the as in loading and unloading vess ore + -man] -**Usage**. See -man. long-shore-wom-an (lông/shô

long'.), n., pl. -wom-en. a wom wharves of a port, as in loading a [LONGSHORE(MAN) + -woman] Usage. See -woman.

long-shor-ing (lông/shôr/ing, -sl work or occupation of a longshorer shore(MAN) + -ING¹]

long' shot', 1. a horse, team chance of winning and carries long or undertaking that offers much little chance for success. 3. Motion a camera shot taken at a relatively the subject and permitting a broat closeup (def. 2), medium shot. 4 any means; by a measurable d finished by a long shot. [1785-95]

CONCISE PRONUNCIATION KEY: act, cape, dâ ox, over, ôrder, oil, book, boot, out, up, ûr, that, zh as in treasure. $\mathfrak a=a$ as in alon easily, o as in gallop, u as in circus; as a land n can serve as syllabic consonants, button (but'n). See the full key inside the

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tant whose nuveen the undisa higher value a känstənt } gy required for { də,sō·sē'ā·

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pressure, for a und dissociates.

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lisorder leading { də¦sō·shəd·iv

The combination a gas followed resulting atoms √ ¦rē•käm•bəˈnā•

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To cause to pass of one television nt shot gradually arkening, so that appears. Also

-solid separation ended-solids reity of those susing liquid by the e release of distion. { dəˈzälvd

gas } { də'zälvd ıgas

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gas reservoir.

ution by a stream

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ical transducer.

ransducer whose ial. Also known əl tranz dü-sər l { di'sim·ə·trē } latio of the intento correct for descattering-phototrē kō·iˈfish·ənt] nich expresses the difference in the y polarized light light of the same or. { di'sim·ə·tré Distacodidae [PALEON] A family of conodonts in the suborder Conodontiformes characterized as simple curved cones with deeply excavated attachment scars. { dis-tə'kad-ə,de } distal [BIOL] Located away from the point of origin or attachment. { 'dist-əl }

Distacodidae

distal convoluted tubule [ANAT] The portion of the nephron in the vertebrate kidney lying between the loop of Henle and the collecting tubules. ('dist-ol-kän-ve lüd əd 'tü byül-

distance [MATH] 1. A nonnegative number associated with pairs of geometric objects. 2. The spatial separation of two points, measured by the length of a hypothetical line joining them. 3. For two parallel lines, two skew lines, or two parallel planes, the length of a line joining the two objects and perpendicular to both. 4. For a point and a line or plane, the length of the perpendicular from the point to the line or plane. [MECH] The spatial separation of two points, measured by the length of a hypothetical line joining them. ('distons')

distance-finding station [NAV] A radio beacon equipped with a synchronized sound signal to provide the pilot or marine with a means of determining distance from the source of the sound, by measuring the difference in the time of reception of the two signals; the sound may be transmitted through air or water and from the same location as the radio signal or a location remote from it. { 'dis-təns ,fīnd-iŋ ,stā-shən }

distance-luminosity relation [ASTRON] The relation in which the light intensity from a star is inversely proportional to the square of its distance. { 'dis-tons lu-mo'nas-od-e ri la-shon } distance mark [ELECTR] A movable point produced on a radar display by a special signal generator, so that when the mark is moved to a target position on the screen the range to the target can be read on the calibrated dial of the signal generator; usually used for gun laying where highly accurate distance is important. { 'dis təns mark }

distance marker [ENG] One of a series of concentric circles, painted or otherwise fixed on the screen of a plan position indicator, from which the distance of a target from the radar antenna can be read directly; used for surveillance and navigation where the relative distances between a number of targets are required simultaneously. Also known as radar range

marker; range marker. { 'dis-tens ,märk-ər } distance marking light [NAV] An approach light indicating distance from the end of a runway, landing strip, or channel. 'distans märkin ,līt }

distance-measuring equipment [NAV] A radio aid to navigation that provides distance information by measuring total round-trip time of transmission from an airborne interrogator to a ground-based transponder and return. Abbreviated DME. 'distans mezh ar in i'kwip mant }

distance modulus See modulus of distance. ['distans maj

distance protection [ELEC] Effect of a device operative within a predetermined electrical distance on the protected circuit to cause and maintain an interruption of power in a faulty circuit. { 'dis-təns prə,tek-shən }

distance ratio [MECH ENG] The ratio of the distance moved by the effort or input of a machine in a specified time to the distance moved by the load or output. { 'dis tons ,ra sho }

distance reception [COMMUN] Reception of messages from, or communication with, distant radio stations. Abbreviated DX. { 'dis təns ri sep shən }

distance relay [ELEC] Protective relay, the operation of which is a function of the distance between the relay and the point of fault. { 'dis tons ,re,la }

distance resolution [ENG] The minimum radial distance by which targets must be separated to be separately distinguishable by a particular radar. Also known as range discrimination; range resolution. { 'distans ,rez-a,lü-shan }

distance/velocity lag [CONT SYS] The delay caused by the amount of time required to transport material or propagate a signal or condition from one point to another. Also known as transportation lag; transport lag. { 'dis tens ve'läs ed e lag }

distant early-warning line [ORD] Defense line of radar stations at about the 70th parallel on the North American continent. { nīl, ni·mowi āl-re, inet-ali

distant field [ELECTROMAG] The electromagnetic field at a distance of five wavelengths or more from a transmitter, where the radial electric field becomes negligible. { |dis-tont | feld } distant signal [CIV ENG] A signal placed at a distance from

a block of track to give advance warning when the block is closed. { |disrtant 'sigmal }

distemper [VET MED] Any of several contagious virus diseases of mammals, especially the form occurring in dogs, marked by fever, respiratory inflammation, and destruction of myelinated nerve tissue. { dis'tem pər } disthene See kyanite. { 'dis,thēn }

distichous [BIOL] Occurring in two vertical rows. { 'dis-ta-

distillate [CHEM] The products of distillation formed by condensing vapors. { 'dis-tə,lāt }

distillate fuel [MATER] Any one of the wide variety of fuels obtained from fractions boiling above the temperature at which gasoline comes off in the distillation of petroleum. { 'dis-tə,lāt

distillate fuel oil [MATER] A classification for one of the overhead fractions produced from crude oil in conventional

distillation operations. { 'dis-ta, lāt 'fyül 'oil } distillation [CHEM] The process of producing a gas or vapor from a liquid by heating the liquid in a vessel and collecting and condensing the vapors into liquids. { ,dis-tə'lā-shən } distillation column [CHEM] A still for fractional distillation.

, dis·təˈlā·shən ˌkäl·əm)

distillation curve [CHEM] The graphical plot of temperature versus overhead product (distillate) volume or weight for a distillation operation. { ,dis·tə'lā·shən ,kərv }

distillation loss [CHEM] In a laboratory distillation, the difference between the volume of liquid introduced into the distilling flask and the sum of the residue and condensate received. { dis təˈlā·shən ˌlòs }

distillation range [CHEM] The difference between the temperature at the initial boiling point and at the end point of a distillation test. { dis tə'lā shən rānj }

distillation test [CHEM ENG] A standardized procedure for finding the initial, intermediate, and final boiling points in the boiling range of petroleum products. { ,dis-tə'lā-shən ,test } distilled liquor [FOOD ENG] Alcoholic beverages obtained by distilling an alcohol-containing liquid such as wine or fermented fruit juice and then further treating the distillate to obtain a beverage of specific character. Also known as hard liquor. { də'stild 'lik•ər }

distilled mustard gas [ORG CHEM] A delayed-action casualty gas (mustard gas) that has been distilled, or purified, to greatly reduce the odor and thereby increase its difficulty of detection. { də'stild 'məs tərd ,gas }

distilled water [CHEM] Water that has been freed of dissolved or suspended solids and organisms by distillation. { də'stild

distillery [FOOD ENG] The building where distillation of alcoholic beverages occurs. { də'stil-ə-rē }

distilling flask [CHEM] A round-bottomed glass flask that is capable of holding a liquid to be distilled. { də'stil-in flask } distoclusion [MED] Malocclusion of the teeth in which those of the lower jaw are in distal relation to the upper teeth. { 'distə¦klü•zhən }

distome [INV 200] A digenetic trematode characterized by possession of an oral and a ventral sucker. { 'dī,stōm }

distorted water [METEOROL] A multimolecular layer of water, at the boundary between a mass of liquid water and the surrounding vapor, whose structure is not identical with that of bulk water. { di'stord ad 'wod ar }

distortion [ELECTR] Any undesired change in the waveform of an electric signal passing through a circuit or other transmission medium. [ENG] In general, the extent to which a system fails to accurately reproduce the characteristics of an input signal at its output. [ENG ACOUS] Any undesired change in the waveform of a sound wave. [OPTICS] A type of aberration in which there is variation in magnification with the distance from the axis of an optical system, so that images are not geometrically similar to their objects. { di'stor shon }

distortional wave See S wave. { di'stor shən əl 'wāv } distortion factor [COMMUN] Ratio of the effective value of

the residue of a wave after elimination of the fundamental to the effective value of the original wave. { di'stor-shən ,fak-tər } distortion meter [ENG] An instrument that provides a visual indication of the harmonic content of an audio-frequency wave.

{ di'stor·shən ,mēd·ər }

distrail See dissipation trail. { 'dis,tral } distress frequency [COMMUN] A frequency allotted to dis-

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$$\cos \theta = \frac{A}{\pm \sqrt{A^2 + B^2}}, \qquad \sin \theta = \frac{B}{\pm \sqrt{A^2 + B^2}}$$

and

$$p = \frac{|C|}{\sqrt{A^2 + B^2}}.$$

Distance from a Point to a Line

The perpendicular distance from a point $P(x_1, y_1)$ to the line Ax + By + C = 0 is given by d

$$d = \frac{Ax_1 + By_1 + C}{\pm \sqrt{A^2 + B^2}}.$$

Circle

The general equation of a circle of radius r and center at $P(x_1, y_1)$ is

$$(x-x_1)^2+(y-y_1)^2=r^2.$$

Parabola

A parabola is the set of all points (x, y) in the plane that are equidistant from a given line called the *directrix* and a given point called the *focus*. The parabola is symmetric about a line that contains the focus and is perpendicular to the directrix. The line of symmetry intersects the parabola at its *vertex* (Figure 17). The eccentricity e = 1.

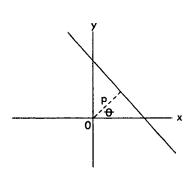


FIGURE 16 Construction for normal form of straight line equation.

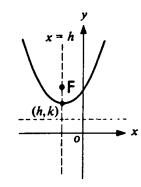


FIGURE 17 Parabola with vertex at (h,k). F identifies the focus.

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**Zdistaff \"\ adj : of or relating to a woman : FEMALE \(\) cooking, sewing, and such \(\sim \) matters \(\sim \) applicants must be high-school graduates \(\sim \) Springfield \((Mass.) Daily News \(\) \(\) (a golf swing that is the \(\sim \) counterpart of the male champion's \(\) \(\) (the entries in the golf tournament were largely on the \(\sim \) side \(\): esp : \(\)

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ment were largely on the \sim side \rangle ; esp: consisting of, derived from, or related to the mother or female line \langle the \sim side of the family \rangle \langle the \sim branch of a family \rangle — compare SPEAR

dis-taff-er $\lceil f_{\theta}(r) \rceil n$ -s slang: WOMAN

dis-tain \də'stan\ vt -ED/-ING/-s [ME disteynen, fr. MF desteindre to take away the color of, fr. OF, fr. des- 'dis- + teindre to dye, color, fr. L tingere to wet, dye — more at TINGE] 1 archaic: to tinge with a color different from the natural and proper one: STAIN, DISCOLOR 2 archaic: DEFILE, DISHONOR, SULLY

dis-tal \'dist' \ adj [dist- + -al] 1: remote from the point of attachment or origin, from a point conceived of as central, or from the point of view: as a: located away from the center of the body \(\text{the} \simeq \text{end of a bone} \) — opposed to proximal b: located away from the mesial plane of the body—opposed to mesial 2: physical or social rather than sen-

sory — opposed to proximal

distal convoluted tubule n: the convoluted portion of the vertebrate nephron that lies between the loop of Henle and the collecting tubule in intimate association with the afferent vessel, that resembles the proximal convoluted tubule in structure though lacking the striated border, and that is concerned esp. with concentration of the urine

dis-tale $\d\dot{\sigma}$ 'sta(,) \del{e} , $-\ddot{a}$ (,) \del{e} , $-\ddot{a}$ (,) \del{e} , \del{e}

row of carpal or tarsal bones

dis-tal-ly \'distəle\ adv: toward or near a distal part or end dis-tance \'distən(t)s\ n -s [ME distaunce, fr. OF destance, distance, fr. L distantia, fr. distant-, distans (pres. part. of distare to stand apart, be distant) + -ia - y more at DISTANT 1 1 obs: DISCORD, DISSENSION, QUARREL 2 a (1): a portion of time between two events or between an event and the present: INTERVAL (the \sim between birth and death) (not sure he could endure the \sim to the time of his release from captivity (2): separation in time (it is impossible to judge, at this \sim , whether most of these cases would pass for willful murder at the present day -G.G.Coulton b: the degree or amount of separation between two points, lines, surfaces, or objects in geometrical space measured along the shortest path joining them \langle the \sim between the two houses was exactly one mile \rangle (the \sim between the eyes varies with individuals): (1): the space between troops in ranks, vehicles, or units measured from front to rear - contrasted with interval (2): the space between the foremasts of adjacent ships in column, line, or line of bearing (3): the amount of space between the eye and an object of perception c: an extent of space measured linearly along a route : the length esp. of a surface or road traveled or to be traveled (the Gambia river, navigable for ocean vessels for a \sim of 150 miles $-Americana \ Annual \rangle$ (he did not know the \sim he had walked) (whoever guided the Stevens Party in 1844 would have kept as close as possible to the point of this hill in order to save \sim -G.R.Stewart \rangle (a considerable \sim of highway \rangle (followed for a \sim by a stray dog) d: an extent or degree of figurative advance or movement away or along from a point considered primary or original (they carried Puritan severity quite a \sim -John Gould \rangle (the firm is now quite a \sim from what it was when it was founded > e: a portion (as of landscape) extended in breadth and depth esp. viewable all at

once : EXPANSE $\langle a \sim of field, woods, and diluted November$

sky did indeed stretch without any other feature -Elizabeth

Rowen) /a country of flat plaine and great and